

#9  
1651

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/541,844A

DATE: 07/26/2001  
TIME: 16:12:59

Input Set : A:\s03108-00-us seqlist.txt  
Output Set: N:\CRF3\07262001\I541844A.raw

ENTERED

4 <110> APPLICANT: Tou, Jacob  
5 Taylor, Douglas  
7 <120> TITLE OF INVENTION: Method of removing N-terminal alanine  
8 residues from polypeptides with Aeromonas aminopeptidase  
11 <130> FILE REFERENCE: S03108-00-US  
13 <140> CURRENT APPLICATION NUMBER: US 09/541,844A  
14 <141> CURRENT FILING DATE: 2000-04-03  
16 <150> PRIOR APPLICATION NUMBER: 60/132,062  
17 <151> PRIOR FILING DATE: 1999-04-30  
19 <160> NUMBER OF SEQ ID NOS: 9  
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
23 <210> SEQ ID NO: 1  
24 <211> LENGTH: 13  
25 <212> TYPE: PRT  
26 <213> ORGANISM: Artificial Sequence  
28 <220> FEATURE:  
29 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of  
30 E. coli methionine aminopeptidase  
32 <400> SEQUENCE: 1  
33 Met Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu  
34 1 5 10  
36 <210> SEQ ID NO: 2  
37 <211> LENGTH: 11  
38 <212> TYPE: PRT  
39 <213> ORGANISM: Artificial Sequence  
41 <220> FEATURE:  
42 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of  
43 E. coli methionine aminopeptidase  
45 <400> SEQUENCE: 2  
46 Met Pro Thr Ser Ser Ser Thr Lys Lys Gln Cys  
47 1 5 10  
49 <210> SEQ ID NO: 3  
50 <211> LENGTH: 13  
51 <212> TYPE: PRT  
52 <213> ORGANISM: Artificial Sequence  
54 <220> FEATURE:  
55 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of  
56 E. coli methionine aminopeptidase  
58 <400> SEQUENCE: 3  
59 Leu Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu  
60 1 5 10  
62 <210> SEQ ID NO: 4  
63 <211> LENGTH: 12  
64 <212> TYPE: PRT  
65 <213> ORGANISM: Artificial Sequence  
67 <220> FEATURE:  
68 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of

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69 E. coli methionine aminopeptidase  
71 <400> SEQUENCE: 4  
72 Ala Pro Thr Ser Ser Ser Thr Lys Lys Thr Gln Leu  
73 1 5 10  
75 <210> SEQ ID NO: 5  
76 <211> LENGTH: 10  
77 <212> TYPE: PRT  
78 <213> ORGANISM: Artificial Sequence  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: Synthetic peptide to test substrate specificity of  
82 E. coli methionine aminopeptidase  
84 <400> SEQUENCE: 5  
85 Pro Thr Ser Ser Ser Thr Lys Lys Gln Cys  
86 1 5 10  
88 <210> SEQ ID NO: 6  
89 <211> LENGTH: 8  
90 <212> TYPE: PRT  
91 <213> ORGANISM: Artificial Sequence  
93 <220> FEATURE:  
94 <223> OTHER INFORMATION: T1 is the N-terminal tryptic peptide of native  
95 human hGH  
97 <400> SEQUENCE: 6  
98 Phe Pro Thr Ile Pro Leu Ser Arg  
99 1 5  
101 <210> SEQ ID NO: 7  
102 <211> LENGTH: 9  
103 <212> TYPE: PRT  
104 <213> ORGANISM: Artificial Sequence  
106 <220> FEATURE:  
107 <223> OTHER INFORMATION: Ala-T1 is the N-terminal tryptic peptide of  
108 Ala-hGH  
110 <400> SEQUENCE: 7  
111 Ala Phe Pro Thr Ile Pro Leu Ser Arg  
112 1 5  
114 <210> SEQ ID NO: 8  
115 <211> LENGTH: 191  
116 <212> TYPE: PRT  
117 <213> ORGANISM: human growth hormone (native hGH)  
119 <220> FEATURE:  
120 <221> NAME/KEY: PEPTIDE  
121 <222> LOCATION: (1)...(191)  
122 <223> OTHER INFORMATION: native human growth hormone  
124 <400> SEQUENCE: 8  
125 Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu Arg  
126 1 5 10 15  
127 Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe Glu  
128 20 25 30  
129 Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn Pro  
130 35 40 45

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131 Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn Arg  
 132 50 55 60  
 133 Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu  
 134 65 70 75 80  
 135 Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser Val  
 136 85 90 95  
 137 Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr Asp  
 138 100 105 110  
 139 Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg Leu  
 140 115 120 125  
 141 Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr Ser  
 142 130 135 140  
 143 Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn Tyr  
 144 145 150 155 160  
 145 Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr Phe  
 146 165 170 175  
 147 Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
 148 180 185 190  
 150 <210> SEQ ID NO: 9  
 151 <211> LENGTH: 192  
 152 <212> TYPE: PRT  
 153 <213> ORGANISM: human growth hormone (ala-hGH)  
 155 <220> FEATURE:  
 156 <221> NAME/KEY: VARIANT  
 157 <222> LOCATION: (1)...(1)  
 158 <223> OTHER INFORMATION: Alanine of Ala-hGH  
 160 <221> NAME/KEY: PEPTIDE  
 161 <222> LOCATION: (2)...(192)  
 162 <223> OTHER INFORMATION: human growth hormone  
 164 <400> SEQUENCE: 9  
 165 Ala Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu  
 166 1 5 10 15  
 167 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe  
 168 20 25 30  
 169 Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn  
 170 35 40 45  
 171 Pro Gln Thr Ser Leu Cys Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn  
 172 50 55 60  
 173 Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser  
 174 65 70 75 80  
 175 Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Phe Leu Arg Ser  
 176 85 90 95  
 177 Val Phe Ala Asn Ser Leu Val Tyr Gly Ala Ser Asp Ser Asn Val Tyr  
 178 100 105 110  
 179 Asp Leu Leu Lys Asp Leu Glu Glu Gly Ile Gln Thr Leu Met Gly Arg  
 180 115 120 125  
 181 Leu Glu Asp Gly Ser Pro Arg Thr Gly Gln Ile Phe Lys Gln Thr Tyr  
 182 130 135 140  
 183 Ser Lys Phe Asp Thr Asn Ser His Asn Asp Asp Ala Leu Leu Lys Asn

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184 145                150                155                160  
185 Tyr Gly Leu Leu Tyr Cys Phe Arg Lys Asp Met Asp Lys Val Glu Thr  
186                165                170                175  
187 Phe Leu Arg Ile Val Gln Cys Arg Ser Val Glu Gly Ser Cys Gly Phe  
188                180                185                190

**VERIFICATION SUMMARY**

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